

VPU II 3 PV 1200V DC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com



General ordering data

Version	Surge voltage arrester, Low voltage, without telecomm. contact
Order No.	1351420000
Type	VPU II 3 PV 1200V DC
GTIN (EAN)	4050118158670
Qty.	1 Stück
Delivery status	This article will no longer be available in the future.
Available until	2022-05-19
Alternative product	2530640000

Erstellungs-Datum May 15, 2023 1:52:14 PM CEST

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Technische Daten

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	94 mm	Height (inches)	3.701 inch
Width	53.4 mm	Width (inches)	2.102 inch
Mounting dimension - height	75 mm	Net weight	395 g

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	70 °C

General data

Colour	black, orange	Design	Installation housing; 3TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Rail	TS 35
UL 94 flammability rating	V-0	Version	without telecomm. contact

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Photovoltaic technical data

Discharge current I_n (8/20 μs)	20 kA	Maximum continuous operating voltage	
PV system voltage, max. U_{cpv}	1,200 V	DC UCPV mode +/-, -/PE, +/-PE	1,200 V
Requirements class	Type II	Protection level U_p (+/-, -/PE, +/-PE)	≤ 4.4 kV
Standards	EN 50539-11	Short-circuit current I_{scpv}	200 A

Rated data IEC / EN

Discharge current I_{max} (8/20 μs) wire-PE	40 kA	Discharge current I_n (8/20 μs) wire-PE	20 kA
Leakage current at U_n	100 μA	Max. continuous voltage, U_c (DC)	1200 V
Number of poles	3	PV voltage, acc. to IEC 60364-7-712	< 1200 V
Rated voltage (DC)	1200 V DC	Response time	≤ 25 ns
SPD type	T2	Signalling contact	No
Standards	EN 50539-11	Voltage type	DC

Connection data

Stripping length	15 mm	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	1.5 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	1.5 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm ²
Connection cross-section, stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	50 mm ²

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Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ECLASS 9.0	27-13-08-05
ECLASS 9.1	27-13-08-05	ECLASS 10.0	27-13-08-05
ECLASS 11.0	27-13-08-05	ECLASS 12.0	27-17-90-90

Tender specification sheets

Long specification	<p>Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 50539-11. Consisting of VO material, the arrester serves as overvoltage protection in applications acc. to IEC 50539-12 in unearthed PV systems. The use of a high-performance varistor consisting of VO material meets the inspection requirements for Class II surge protection systems on the basis of the standards. The arrester is installed in the vicinity of the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. With thermal separation device on the varistor. If protection is no longer available, the colour in the display window changes from green to red. Rated voltage: 1200 VDC In/ max (8/20 µs): 20/40 kA, protection level < 4.4 kV, type: Weidmüller VPU II 3 PV 1200 V/40 kA, Order No. 135 1420000 or equivalent</p>	Short specification	<p>Class II arrester with In/ I_{max}: 20/40 kA suitable for unearthed PV systems. Protection level < 4.4 kV. Type: Weidmüller VPU II 3 PV 1200 V/40 kA Order no. 135 1420000 or equivalent</p>
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Approvals

Approvals



ROHS

Conform

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Technische Daten

Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD, EPLAN
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

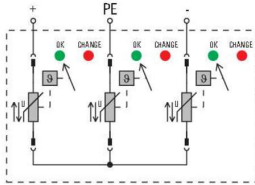
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Zeichnungen

Electric symbol



Circuit diagram